PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12968PCX329	FOR FURTHER ACTION as we	see Form PCT/ISA/220 Il as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/NZ2004/000184	13 August 2004	15 August 2003				
Applicant AGRESEARCH LIMITED et al						
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This international search report consists of a	total of 4 sheets.					
It is also accompanied by a cop	by of each prior art document cited in this report.					
1. Basis of the report						
a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).						
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.						
2. Certain claims were found unsearchable (See Box No. II).						
3. Unity of invention is lacking (See Box No. III).						
4. With regard to the title,						
X the text is approved as submitted	ed by the applicant.					
the text has been established by this Authority to read as follows:						
5. With regard to the abstract,		•				
X the text is approved as submitted by the applicant.						
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.						
6. With regard to the drawings,						
a. the figure of the drawings to be published with the abstract is Figure No.						
as suggested by the applicant.						
as selected by this Authority, because the applicant failed to suggest a figure.						
as selected by this Authority, because this figure better characterizes the invention.						
b. X none of the figures is to be put	olished with the abstract.					

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000184

CLASSIFICATION OF SUBJECT MATTER A61 K 31/407; A61P 9/10, 9/12 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI and MEDLINE: Key words - Lolitrem, Lolitriol, Lolilline, Lolicine, Potassium, ion channel, antagonist, repolarisation, hyperpolarisation and related terms DOCUMENTS CONSIDERED TO BE RELEVANT C. Relevant to Category* Citation of document, with indication, where appropriate, of the relevant passages claim No. 1-8, 10, WO 2003/ 105868 A (MERCK & Co. INC) 24 December 2003. 12-13, 16-34 P, X See pages 5, 7, 13 and claim 1 Miles C. et al. Large scale isolation of Lolitrem B and structure determination of 1-5, 7, 16-29, Lolitrem E. J. Agric. Food Chem 1994, 42, pages 1488-1492 33-34 X See abstract and Fig. 1 Munday-Finch S. et al. Isolation and structure elucidation of Lolitrem A, a tremorgenic mycotoxin from perennial ryegrass infected with Acremonium lolii. J. Agric. Food 1-6, 16-26, Chem. 1995, 43, pages 1283-1288 33-34 X See abstract and Fig. 1 See patent family annex Further documents are listed in the continuation of Box C Special categories of cited documents: later document published after the international filing date or priority date and not in "A" document defining the general state of the art which is not considered to be of particular relevance conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel "E" earlier application or patent but published on or after the or cannot be considered to involve an inventive step when the document is taken international filing date document of particular relevance; the claimed invention cannot be considered to "L" document which may throw doubts on priority claim(s) involve an inventive step when the document is combined with one or more other or which is cited to establish the publication date of such documents, such combination being obvious to a person skilled in the art another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition document member of the same patent family or other means document published prior to the international filing date but later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 1 8 NOV 2004 22 October 2004 Name and mailing address of the ISA/AU Authorized officer AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA

S. Chew

Telephone No: (02) 6283 2248

E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NZ2004/000184

	on). DOCUMENTS CONSIDERED TO BE RELEVANT		
gory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
х	Munday-Finch S. et al. Isolation of Lolicine A, Lolicine B, Lolitriol, and Lolitrem N from Lolium perenne infected with Neotyphodium lolii and evidence for the natural occurrence of 31-Epilolitrem N and 31-Epilolitrem F. J. Agric. Food Chem. 1998, 46, pages 590-598 See abstract and Fig. 1		
х	Munday-Finch S. et al. Isolation and structure elucidation of Lolilline, a possible biosynthetic precursor of the Lolitrem family of tremorgenic mycotoxins. J. Agric. Food Chem. 1997, 45, pages 199-204 See Figures 1 and 3		
x	Derwent Abstract Accession No. 92-308267/38, Class B02, C02, D16, AU 9210402 A (NEW ZEALAND SEC FORESTRY) 30 July 1992. See abstract		
X	Munday-Finch S. et al. Structure elucidation of Lolitrem F, a naturally occurring stereoisomer of the tremorgenic mycotoxin Lolitrem B, isolated from Lolium perenne infected with Acremonium Iolii. J. Agric. Food Chem. 1996, 44, pages 2782-2788. See abstract, Figures 1 and 4		
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/NZ2004/000184

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member	
wo	2003/105868	NONE		·

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX